

## OPTICAL POLARITY MODULES AND SYSTEMS

### Abstract of the Disclosure

[020] A universal breakout harness for reversing the polarity of optical fibers includes a multi-fiber connector having a plurality of optical paths, an optical ribbon having a plurality of optical fibers disposed in the optical paths of the multi-fiber connector, and a plurality of optical fiber connectors opposite the multi-fiber connector defining a plurality of pairs of optical fiber paths. The optical fibers are separated and routed between the optical paths of the multi-fiber connector and the pairs of optical paths defined by the plurality of optical fiber connectors such that the optical fibers in at least one of the pairs of optical paths are selected from optical fibers disposed in optical paths of the multi-fiber connector that are not immediately adjacent to each other. The universal breakout harness is used in methods of implementing reverse-ribbon positioning in a cabling system and transitioning ribbon cabling into multiple duplex systems.